**Pace Analytical Services, LLC**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 11, 2016

Meagan E. Ormand
Golder Associates Inc.
2108 W. Laburnum Ave.
Suite 200
Richmond, VA 23227

RE: Project: Bremo weekly Process
Pace Project No.: 92319083

Dear Meagan Ormand:
Enclosed are the analytical results for sample(s) received by the laboratory on November 09, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring for
Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

cc: Ron DiFrancesco, Golder Associates Inc.
Arielle Green, Golder Associates Inc.
Martha Smith, Golder Associates Inc.
Mike Williams, Golder Associates Inc

**REPORT OF LABORATORY ANALYSIS**

**Pace Analytical Services, LLC**
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# CERTIFICATIONS

Project: Bremo weekly Process
Pace Project No.: 92319083

**Ormond Beach Certification IDs**
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

**Charlotte Certification IDs**
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

**Asheville Certification IDs**
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

**Eden Certification IDs**
205 East Meadow Road Suite A, Eden, NC 27288
North Carolina Drinking Water Certification #: 37738
North Carolina Wastewater Certification #: 633
Virginia/VELAP Certification #: 460025

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: Bremo weekly Process
Pace Project No.: 92319083

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **92319083001** | **T3-161108-0300-S3** | SM 2540D | KCE | 1 | PASI-E |
| | | EPA 350.1 1993 Rev 2.0 | KCE | 1 | PASI-E |
| | | SM 4500-Cl-E-2011 | KCE | 1 | PASI-E |
| | | EPA 1664B | JMS | 1 | PASI-C |
| | | EPA 200.7 | RVK | 1 | PASI-O |
| | | Trivalent Chromium Calculation | HEA | 1 | PASI-O |
| | | EPA 200.8 | DRS | 10 | PASI-O |
| | | EPA 245.1 | WAB | 1 | PASI-A |
| | | EPA 218.7 | AEM | 1 | PASI-O |

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# PROJECT NARRATIVE

Project: Bremo weekly Process
Pace Project No.: 92319083

**Method:** **SM 2540D**
**Description:** 2540D TSS, Low-Level, Eden
**Client:** Golder_Dominion_Bremo
**Date:** November 11, 2016

**General Information:**
1 sample was analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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# PROJECT NARRATIVE

Project: Bremo weekly Process
Pace Project No.: 92319083

**Method:** **EPA 350.1 1993 Rev 2.0**
**Description:** 350.1 Ammonia
**Client:** Golder_Dominion_Bremo
**Date:** November 11, 2016

**General Information:**
1 sample was analyzed for EPA 350.1 1993 Rev 2.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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# PROJECT NARRATIVE

Project: Bremo weekly Process
Pace Project No.: 92319083

**Method:** **SM 4500-Cl-E-2011**
**Description:** 4500 Chloride
**Client:** Golder_Dominion_Bremo
**Date:** November 11, 2016

**General Information:**
1 sample was analyzed for SM 4500-Cl-E-2011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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# PROJECT NARRATIVE

Project: Bremo weekly Process
Pace Project No.: 92319083

**Method:** **EPA 1664B**
**Description:** HEM, Oil and Grease
**Client:** Golder_Dominion_Bremo
**Date:** November 11, 2016

**General Information:**
1 sample was analyzed for EPA 1664B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Surrogates:**
All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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# PROJECT NARRATIVE

Project: Bremo weekly Process
Pace Project No.: 92319083

**Method:** **EPA 200.7**
**Description:** 200.7 MET ICP
**Client:** Golder_Dominion_Bremo
**Date:** November 11, 2016

**General Information:**
1 sample was analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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# PROJECT NARRATIVE

Project: Bremo weekly Process
Pace Project No.: 92319083

**Method:** **Trivalent Chromium Calculation**
**Description:** Trivalent Chromium Calculation
**Client:** Golder_Dominion_Bremo
**Date:** November 11, 2016

**General Information:**
1 sample was analyzed for Trivalent Chromium Calculation. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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# PROJECT NARRATIVE

Project: Bremo weekly Process
Pace Project No.: 92319083

**Method:** **EPA 200.8**
**Description:** 200.8 MET ICPMS
**Client:** Golder_Dominion_Bremo
**Date:** November 11, 2016

**General Information:**
1 sample was analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**
All internal standards were within QC limits with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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# PROJECT NARRATIVE

Project: Bremo weekly Process
Pace Project No.: 92319083

**Method:** **EPA 245.1**
**Description:** 245.1 Mercury
**Client:** Golder_Dominion_Bremo
**Date:** November 11, 2016

**General Information:**
1 sample was analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**
All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**
All criteria were within method requirements with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

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# PROJECT NARRATIVE

Project: Bremo weekly Process
Pace Project No.: 92319083

**Method:** **EPA 218.7**
**Description:** Hexavalent Chromium by IC
**Client:** Golder_Dominion_Bremo
**Date:** November 11, 2016

**General Information:**
1 sample was analyzed for EPA 218.7. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**
The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**
All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

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## ANALYTICAL RESULTS

Project: Bremo weekly Process
Pace Project No.: 92319083

**Sample: T3-161108-0300-S3** **Lab ID: 92319083001** Collected: 11/08/16 03:00 Received: 11/09/16 14:46 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **2540D TSS, Low-Level, Eden** | Analytical Method: SM 2540D | | | | | | | |
| Total Suspended Solids | **1.3** | mg/L | 1.0 | 1 | | 11/10/16 10:36 | | |
| **350.1 Ammonia** | Analytical Method: EPA 350.1 1993 Rev 2.0 | | | | | | | |
| Nitrogen, Ammonia | ND | mg/L | 0.20 | 1 | | 11/10/16 12:58 | 7664-41-7 | |
| **4500 Chloride** | Analytical Method: SM 4500-Cl-E-2011 | | | | | | | |
| Chloride | **61.0** | mg/L | 5.0 | 5 | | 11/10/16 10:50 | 16887-00-6 | |
| **Field Data** | Analytical Method: | | | | | | | |
| Collected By | **B. Diehl** | | | 1 | | 11/08/16 03:07 | | |
| Collected Date | **11/08/16** | | | 1 | | 11/08/16 03:07 | | |
| Collected Time | **03:00** | | | 1 | | 11/08/16 03:07 | | |
| Field pH | **7.3** | Std. Units | 0.10 | 1 | | 11/08/16 03:07 | | |
| **HEM, Oil and Grease** | Analytical Method: EPA 1664B | | | | | | | |
| Oil and Grease | ND | mg/L | 5.0 | 1 | | 11/10/16 08:00 | | |
| **200.7 MET ICP** | Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 | | | | | | | |
| Tot Hardness asCaCO3 (SM 2340B | **193000** | ug/L | 3300 | 1 | 11/10/16 12:20 | 11/10/16 15:30 | | |
| **Trivalent Chromium Calculation** | Analytical Method: Trivalent Chromium Calculation | | | | | | | |
| Chromium, Trivalent | ND | ug/L | 5.0 | 1 | | 11/10/16 17:08 | 16065-83-1 | |
| **200.8 MET ICPMS** | Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 | | | | | | | |
| Antimony | ND | ug/L | 5.0 | 1 | 11/10/16 12:20 | 11/10/16 15:28 | 7440-36-0 | |
| Arsenic | **40.1** | ug/L | 5.0 | 1 | 11/10/16 12:20 | 11/10/16 15:28 | 7440-38-2 | |
| Cadmium | ND | ug/L | 1.0 | 1 | 11/10/16 12:20 | 11/10/16 15:28 | 7440-43-9 | |
| Copper | ND | ug/L | 5.0 | 1 | 11/10/16 12:20 | 11/10/16 15:28 | 7440-50-8 | |
| Lead | ND | ug/L | 5.0 | 1 | 11/10/16 12:20 | 11/10/16 15:28 | 7439-92-1 | |
| Nickel | ND | ug/L | 5.0 | 1 | 11/10/16 12:20 | 11/10/16 15:28 | 7440-02-0 | |
| Selenium | ND | ug/L | 5.0 | 1 | 11/10/16 12:20 | 11/10/16 15:28 | 7782-49-2 | |
| Silver | ND | ug/L | 0.40 | 1 | 11/10/16 12:20 | 11/10/16 15:28 | 7440-22-4 | |
| Thallium | ND | ug/L | 1.0 | 1 | 11/10/16 12:20 | 11/10/16 15:28 | 7440-28-0 | |
| Zinc | ND | ug/L | 25.0 | 1 | 11/10/16 12:20 | 11/10/16 15:28 | 7440-66-6 | |
| **245.1 Mercury** | Analytical Method: EPA 245.1 Preparation Method: EPA 245.1 | | | | | | | |
| Mercury | ND | ug/L | 0.10 | 1 | 11/10/16 10:35 | 11/10/16 14:07 | 7439-97-6 | |
| **Hexavalent Chromium by IC** | Analytical Method: EPA 218.7 | | | | | | | |
| Chromium, Hexavalent | ND | ug/L | 1.0 | 1 | | 11/10/16 14:56 | 18540-29-9 | |

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Bremo weekly Process
Pace Project No.: 92319083

QC Batch: 336392 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D TSS, Low Level, Eden
Associated Lab Samples: 92319083001

METHOD BLANK: 1865234 Matrix: Water
Associated Lab Samples: 92319083001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | ND | 1.0 | 11/10/16 10:34 | |

LABORATORY CONTROL SAMPLE: 1865235

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | 250 | 248 | 99 | 90-110 | |

SAMPLE DUPLICATE: 1865236

| Parameter | Units | 92319105001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Total Suspended Solids | mg/L | 1.1 | 1.1 | 0 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Bremo weekly Process
Pace Project No.: 92319083

QC Batch: 336396 Analysis Method: EPA 350.1 1993 Rev 2.0
QC Batch Method: EPA 350.1 1993 Rev 2.0 Analysis Description: 350.1 Ammonia, EDEN
Associated Lab Samples: 92319083001

METHOD BLANK: 1865265 Matrix: Water
Associated Lab Samples: 92319083001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | ND | 0.20 | 11/10/16 12:54 | |

LABORATORY CONTROL SAMPLE: 1865266

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | 5 | 5.2 | 105 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1865267 1865268

| Parameter | Units | 92319105001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Ammonia | mg/L | ND | 5 | 5 | 5.1 | 4.9 | 101 | 98 | 90-110 | 3 | |

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## QUALITY CONTROL DATA

Project: Bremo weekly Process
Pace Project No.: 92319083

QC Batch: 336395 Analysis Method: SM 4500-Cl-E-2011
QC Batch Method: SM 4500-Cl-E-2011 Analysis Description: 4500 Chloride, EDEN
Associated Lab Samples: 92319083001

METHOD BLANK: 1865258 Matrix: Water
Associated Lab Samples: 92319083001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Chloride | mg/L | ND | 1.0 | 11/10/16 10:39 | |

LABORATORY CONTROL SAMPLE: 1865259

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 10 | 9.8 | 98 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1865260 1865261

| Parameter | Units | 92319105001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 59.9 | 10 | 10 | 69.2 | 70.6 | 92 | 106 | 90-110 | 2 | |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Bremo weekly Process
Pace Project No.: 92319083

QC Batch: 336332 Analysis Method: EPA 1664B
QC Batch Method: EPA 1664B Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 92319083001

METHOD BLANK: 1864998 Matrix: Water
Associated Lab Samples: 92319083001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Oil and Grease | mg/L | ND | 5.0 | 11/10/16 08:00 | |

LABORATORY CONTROL SAMPLE & LCSD: 1864999 1865000

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Oil and Grease | mg/L | 40 | 35.8 | 36.0 | 90 | 90 | 78-114 | 1 | 30 | |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Bremo weekly Process
Pace Project No.: 92319083

QC Batch: 336387 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 92319083001

METHOD BLANK: 1865210 Matrix: Water
Associated Lab Samples: 92319083001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | ND | 0.10 | 11/10/16 13:55 | |

LABORATORY CONTROL SAMPLE: 1865211

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 2.5 | 2.7 | 108 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1865212 1865213

| Parameter | Units | 92319105001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | ND | 2.5 | 2.5 | 2.2 | 2.4 | 86 | 96 | 70-130 | 11 | |

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## QUALITY CONTROL DATA

Project: Bremo weekly Process
Pace Project No.: 92319083

QC Batch: 331456 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET
Associated Lab Samples: 92319083001

METHOD BLANK: 1772478 Matrix: Water
Associated Lab Samples: 92319083001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Tot Hardness asCaCO3 (SM 2340B | ug/L | ND | 3300 | 11/10/16 15:22 | |

LABORATORY CONTROL SAMPLE: 1772479

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Tot Hardness asCaCO3 (SM 2340B | ug/L | 82700 | 78000 | 94 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1772480 1772481

| Parameter | Units | 92319083001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Tot Hardness asCaCO3 (SM 2340B | ug/L | 193000 | 82700 | 82700 | 262000 | 265000 | 84 | 88 | 70-130 | 1 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

# QUALITY CONTROL DATA

Project: Bremo weekly Process
Pace Project No.: 92319083

QC Batch: 331457 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 92319083001

METHOD BLANK: 1772490 Matrix: Water
Associated Lab Samples: 92319083001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Antimony | ug/L | ND | 5.0 | 11/10/16 15:23 | |
| Arsenic | ug/L | ND | 5.0 | 11/10/16 15:23 | |
| Cadmium | ug/L | ND | 1.0 | 11/10/16 15:23 | |
| Copper | ug/L | ND | 5.0 | 11/10/16 15:23 | |
| Lead | ug/L | ND | 5.0 | 11/10/16 15:23 | |
| Nickel | ug/L | ND | 5.0 | 11/10/16 15:23 | |
| Selenium | ug/L | ND | 5.0 | 11/10/16 15:23 | |
| Silver | ug/L | ND | 0.40 | 11/10/16 15:23 | |
| Thallium | ug/L | ND | 1.0 | 11/10/16 15:23 | |
| Zinc | ug/L | ND | 25.0 | 11/10/16 15:23 | |

LABORATORY CONTROL SAMPLE: 1772491

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 50 | 45.3 | 91 | 85-115 | |
| Arsenic | ug/L | 50 | 49.8 | 100 | 85-115 | |
| Cadmium | ug/L | 5 | 4.7 | 95 | 85-115 | |
| Copper | ug/L | 50 | 52.0 | 104 | 85-115 | |
| Lead | ug/L | 50 | 47.9 | 96 | 85-115 | |
| Nickel | ug/L | 50 | 51.0 | 102 | 85-115 | |
| Selenium | ug/L | 50 | 50.5 | 101 | 85-115 | |
| Silver | ug/L | 5 | 4.8 | 96 | 85-115 | |
| Thallium | ug/L | 50 | 48.6 | 97 | 85-115 | |
| Zinc | ug/L | 250 | 252 | 101 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1772492 1772493

| Parameter | Units | 92319105001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ug/L | ND | 50 | 50 | 51.4 | 49.8 | 94 | 91 | 70-130 | 3 | |
| Arsenic | ug/L | 37.1 | 50 | 50 | 86.7 | 85.3 | 99 | 96 | 70-130 | 2 | |
| Cadmium | ug/L | ND | 5 | 5 | 4.8 | 4.6 | 96 | 92 | 70-130 | 4 | |
| Copper | ug/L | ND | 50 | 50 | 50.3 | 48.9 | 100 | 97 | 70-130 | 3 | |
| Lead | ug/L | ND | 50 | 50 | 51.8 | 50.3 | 103 | 100 | 70-130 | 3 | |
| Nickel | ug/L | ND | 50 | 50 | 51.8 | 50.4 | 100 | 97 | 70-130 | 3 | |
| Selenium | ug/L | ND | 50 | 50 | 49.8 | 48.3 | 99 | 96 | 70-130 | 3 | |
| Silver | ug/L | ND | 5 | 5 | 4.7 | 4.4 | 93 | 88 | 70-130 | 6 | |
| Thallium | ug/L | ND | 50 | 50 | 53.4 | 51.8 | 106 | 103 | 70-130 | 3 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

## QUALITY CONTROL DATA

Project: Bremo weekly Process
Pace Project No.: 92319083

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: | | 1772492 | | | 1772493 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Parameter | Units | 92319105001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
| Zinc | ug/L | ND | 250 | 250 | 246 | 237 | 97 | 94 | 70-130 | 4 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

## QUALITY CONTROL DATA

Project: Bremo weekly Process
Pace Project No.: 92319083

QC Batch: 331446 Analysis Method: EPA 218.7
QC Batch Method: EPA 218.7 Analysis Description: Chromium, Hexavalent IC
Associated Lab Samples: 92319083001

METHOD BLANK: 1772415 Matrix: Water
Associated Lab Samples: 92319083001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Chromium, Hexavalent | ug/L | ND | 1.0 | 11/10/16 12:46 | |

LABORATORY CONTROL SAMPLE: 1772416

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chromium, Hexavalent | ug/L | .075 | .066J | 88 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1772417 1772418

| Parameter | Units | 92318622001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium, Hexavalent | ug/L | ND | .38 | .38 | .35J | .36J | 93 | 97 | 85-115 | 4 | |

**Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.**

## REPORT OF LABORATORY ANALYSIS

**Pace Analytical Services, LLC**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

# QUALIFIERS

Project: Bremo weekly Process
Pace Project No.: 92319083

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## LABORATORIES

| | |
|---|---|
| PASI-A | Pace Analytical Services - Asheville |
| PASI-C | Pace Analytical Services - Charlotte |
| PASI-E | Pace Analytical Services - Eden |
| PASI-O | Pace Analytical Services - Ormond Beach |

**Pace Analytical Services, LLC**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bremo weekly Process
Pace Project No.: 92319083

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **92319083001** | **T3-161108-0300-S3** | SM 2540D | 336392 | | |
| **92319083001** | **T3-161108-0300-S3** | EPA 350.1 1993 Rev 2.0 | 336396 | | |
| **92319083001** | **T3-161108-0300-S3** | SM 4500-Cl-E-2011 | 336395 | | |
| **92319083001** | **T3-161108-0300-S3** | | | | |
| **92319083001** | **T3-161108-0300-S3** | EPA 1664B | 336332 | | |
| **92319083001** | **T3-161108-0300-S3** | EPA 200.7 | 331456 | EPA 200.7 | 331486 |
| **92319083001** | **T3-161108-0300-S3** | Trivalent Chromium Calculation | 331560 | | |
| **92319083001** | **T3-161108-0300-S3** | EPA 200.8 | 331457 | EPA 200.8 | 331491 |
| **92319083001** | **T3-161108-0300-S3** | EPA 245.1 | 336387 | EPA 245.1 | 336393 |
| **92319083001** | **T3-161108-0300-S3** | EPA 218.7 | 331446 | | |

| Pace Analytical® | Document Name: Sample Condition Upon Receipt(SCUR) | Document Revised: May 24, 2016 Page 1 of 2 |
|---|---|---|
| | Document No.: F-MEC-CS-009-Rev.03 | Issuing Authority: Pace Mechanicsville Quality Office |



**Sample Condition Upon Receipt**

**Client Name:** Golder/Bremo **Project #** T3

**WO# : 92319083**

92319083

**Courier:** ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

**Custody Seal Present?** ☑ Yes ☑ No **Seals Intact?** ☑ Yes ☐ No

**Date/Initials Person Examining Contents:** 11-9-16 RSB

**Packing Material:** ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other:____

**Thermometer:** ☒ RMD001 ☐____ **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

**Correction Factor: 0.0°C** **Cooler Temp Corrected (°C):** 2.6 **Biological Tissue Frozen?** ☐ Yes ☐ No ☐ N/A

Temp should be above freezing to 6°C

**USDA Regulated Soil** ( ☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

| | | | | Comments/Discrepancy: |
|---|---|---|---|---|
| Chain of Custody Present? | ☑ Yes | ☐ No | ☐ N/A | 1. |
| Samples Arrived within Hold Time? | ☑ Yes | ☐ No | ☐ N/A | 2. |
| **Short Hold Time Analysis (<72 hr.)?** | ☐ Yes | ☑ No | ☐ N/A | 3. |
| **Rush Turn Around Time Requested?** | ☑ Yes | ☐ No | ☐ N/A | 4. |
| Sufficient Volume? | ☑ Yes | ☐ No | ☐ N/A | 5. |
| Correct Containers Used? | ☑ Yes | ☐ No | ☐ N/A | 6. |
| -Pace Containers Used? | ☑ Yes | ☐ No | ☐ N/A | |
| Containers Intact? | ☑ Yes | ☐ No | ☐ N/A | 7. |
| Samples Field Filtered? | ☐ Yes | ☐ No | ☑ N/A | 8. Note if sediment is visible in the dissolved container |
| Sample Labels Match COC? | ☑ Yes | ☐ No | ☐ N/A | 9. |
| -Includes Date/Time/ID/Analysis Matrix: WW | | | | |
| All containers needing acid/base preservation have been checked? | ☑ Yes | ☐ No | ☐ N/A | 10. HNO3 pH<2 |
| All containers needing preservation are found to be in compliance with EPA recommendation? | | | | HCl pH<2 |
| ($HNO_3$, $H_2SO_4$, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) | ☑ Yes | ☐ No | ☐ N/A | H2SO4 pH<2 |
| **Exceptions:** VOA, Coliform, TOC, Oil and Grease, | | | | NaOH pH>12 |
| DRO/8015 (water) DOC,LLHg | ☐ Yes | ☐ No | ☐ N/A | NaOH/ZnOAc pH>9 |
| Samples checked for dechlorination? | ☐ Yes | ☐ No | ☑ N/A | 11. |
| Headspace in VOA Vials (>5-6mm)? | ☐ Yes | ☐ No | ☑ N/A | 12. |
| Trip Blank Present? | ☐ Yes | ☐ No | ☑ N/A | 13. |
| Trip Blank Custody Seals Present? | ☐ Yes | ☐ No | ☑ N/A | |
| Pace Trip Blank Lot # (if purchased):____ | | | | |

**CLIENT NOTIFICATION/RESOLUTION** **Field Data Required?** ☐ Yes ☐ No

Person Contacted:____ Date/Time:____

Comments/Sample Discrepancy:____

**Project Manager SCURF Review:** KH **Date:** 11/9/16

**Project Manager SRF Review:** KH **Date:** 11/10/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

00020123

Pace Analytical
www.pacelabs.com

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

| Section A Required Client Information: | | Section B Required Project Information: | | Section C Invoice Information: | |
|---|---|---|---|---|---|
| Company: | Golder Associates | Report To: | Mormand@golder.com | Attention: | Meagan Ormand |
| Address: | 2108 W Laburnum Ave, Ste 200 | Copy To: | Martha_Smith@golder.com | Company Name: | Golder Associates |
| | Richmond,VA 23227 | | Ron_Difrancesco@golder.com | Address: | gaiapdataentry_invoices@golder.com |
| Email To: | Mormand@golder.com | Purchase Order No.: | | Pace Quote Reference: | |
| Phone: | 804-551-0129 Fax: 804-358-2900 | Project Name: | Bremo Weekly Process | Pace Project Manager: | |
| Requested Due Date/TAT: | ~~24 HOUR~~ 3-Day | Project Number: | 1520-347.220 | Pace Profile #: | |

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: VA

Section D Required Client Information

**SAMPLE ID**
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

| MATRIX | CODE |
|---|---|
| DRINKING WATER | DW |
| WATER | WT |
| WASTE WATER | WW |
| PRODUCT | P |
| SOIL/SOLID | SL |
| OIL | OL |
| WIPE | WP |
| AIR | AR |
| OTHER | OT |
| TISSUE | TS |

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COLLECTED COMPOSITE START TIME | COLLECTED COMPOSITE END/GRAB DATE | COLLECTED COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test Y/N | 200.8 - Sb, As, Cd, Cr (III) | 200.8 - Pb, Ni ,Se, Zn, Cu | 200.8 - Ag, Tl | 245.1 - Hg | 218.6(7) - Cr (VI) | SM4500 - Chloride | 1664B - Oil&Grease | 350.1 - Ammonia-N | SM2540D - TSS | 200.7 - Hardness | | | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. 92319083 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | T3-161108-0300-53 | WW | G | — | — | 11/8/16 | 03:00 | | 10 | X | | X | X | X | | | X | X | X | X | X | X | X | X | X | | | N | pH analysis @03:07; pH = 7.3 |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---|---|---|---|---|---|---|---|
| All analyses to be performed under Golder-Pace MSA dated 12/19/2008 | (Golder) | 11/8/16 | 0600 | Golder | 11/8/16 | 0600 | |
| | Golder | 11/9/16 | 1446 | | 11/9/16 | 14:46 | |
| | | 11/9/16 | 16:35 | Rachel Burruss | 11-9-16 | 1635 | X 2.6 Y Y Y |
| | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brett Diehl

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 11/8/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007